
AMENDMENTS TO THE CLAIMS:

1. (Currently amended) An exhaust gas purifying catalyst comprising a noble metal, a perovskite-type composite oxide, and at least one of theta-alumina and/or and alpha-alumina;

wherein the perovskite-type composite oxide is represented by the general formula (3):



wherein A represents at least one element selected from the group consisting of rare-earth elements and alkaline earth metals; B represents at least one element selected from the group consisting of Al and transition elements excluding rare-earth elements and noble metals; N represents a noble metal; and m represents an atomic ratio of N satisfying the following relation: $0 < m < 0.5$.

2. (Canceled)

3. (Previously presented) The exhaust gas purifying catalyst according to claim 1, wherein the perovskite-type composite oxide containing a noble metal is supported by theta-alumina and/or alpha-alumina.

4. (Previously presented) The exhaust gas purifying catalyst according to claim 1, wherein the perovskite-type composite oxide containing a noble metal is supported by at least one thermostable oxide selected from the group consisting of zirconia composite oxides represented by the following general formula (1), ceria composite oxides represented by the following general formula (2), $SrZrO_3$ and $LaAlO_3$:



wherein R represents alkaline earth metals and/or rare-earth elements excluding Ce; a represents an atomic ratio of Ce satisfying the following relation: $0.1 \leq a \leq 0.65$; b represents an atomic ratio of R satisfying the following relation: $0 \leq b \leq 0.55$; $[1-(a+b)]$ represents an atomic ratio of Zr satisfying the following relation: $0.35 \leq [1-(a+b)] \leq 0.9$; and c represents an oxygen defect,



wherein L represents alkaline earth metals and/or rare-earth elements excluding Ce; d represents an atomic ratio of Zr satisfying the following relation: $0.2 \leq d \leq 0.7$; e represents an atomic ratio of L satisfying the following relation: $0 \leq e \leq 0.2$; $[1-(d+e)]$ represents an atomic ratio of Ce satisfying the following relation: $0.3 \leq [1-(d+e)] \leq 0.8$; and f represents an oxygen defect.

5. (Currently amended) The exhaust gas purifying catalyst according to claim 3, wherein ~~in producing the perovskite-type composite oxide containing a noble metal, theta-alumina and/or alpha-alumina supporting the perovskite-type composite oxide containing a noble metal, which is supported by theta alumina and/or alpha alumina, is prepared by a method comprising incorporating theta-alumina and/or alpha-alumina into a pre-crystallization composition and crystallizing before crystallization of the perovskite-type composite oxide containing a noble metal.~~

6. (Original) The exhaust gas purifying catalyst according to claim 3, which further comprises at least one thermostable oxide selected from the group consisting of zirconia composite oxides represented by the following general formula (1), ceria composite oxides represented by the following general formula (2), theta-alumina, alpha-alumina, gamma-alumina, SrZrO_3 and LaAlO_3 :



wherein R represents alkaline earth metals and/or rare-earth elements excluding Ce; a represents an atomic ratio of Ce satisfying the following relation: $0.1 \leq a \leq 0.65$; b represents an atomic ratio of R satisfying the following relation: $0 \leq b \leq 0.55$; $[1-(a+b)]$ represents an atomic ratio of Zr satisfying the following relation: $0.35 \leq [1-(a+b)] \leq 0.9$; and c represents an oxygen defect,



wherein L represents alkaline earth metals and/or rare-earth elements excluding Ce; d represents an atomic ratio of Zr satisfying the following relation: $0.2 \leq d \leq 0.7$; e represents an atomic ratio of L satisfying the following relation: $0 \leq e \leq 0.2$; $[1-(d+e)]$ represents an atomic ratio of Ce satisfying the following relation: $0.3 \leq [1-(d+e)] \leq 0.8$; and f represents an oxygen defect.

7. (Previously presented) The exhaust gas purifying catalyst according to claim 1, wherein the perovskite-type composite oxide containing a noble metal is mixed with theta-alumina and/or alpha-alumina.

8. (Previously presented) The exhaust gas purifying catalyst according to claim 7, further comprising at least one thermostable oxide selected from the group consisting of zirconia composite oxides represented by the following general formula (1), ceria composite oxides represented by the following general formula (2), gamma-alumina, SrZrO₃ and LaAlO₃:



wherein R represents alkaline earth metals and/or rare-earth elements excluding Ce; a represents an atomic ratio of Ce satisfying the following relation: $0.1 \leq a \leq 0.65$; b represents an atomic ratio of R satisfying the following relation: $0 \leq b \leq 0.55$; $[1-(a+b)]$ represents an atomic ratio of Zr satisfying the following relation: $0.35 \leq [1-(a+b)] \leq 0.9$; and c represents an oxygen defect,



wherein L represents alkaline earth metals and/or rare-earth elements excluding Ce; d represents an atomic ratio of Zr satisfying the following relation: $0.2 \leq d \leq 0.7$; e represents an atomic ratio of L satisfying the following relation: $0 \leq e \leq 0.2$; $[1-(d+e)]$ represents an atomic ratio of Ce satisfying the following relation: $0.3 \leq [1-(d+e)] \leq 0.8$; and f represents an oxygen defect.

9. (Canceled)

10. (Previously presented) The exhaust gas purifying catalyst according to claim 1, wherein N in general formula (3) is at least one selected from the group consisting of Rh, Pd, and Pt.

11. (Currently amended) The exhaust gas purifying catalyst according to claim 1, wherein the perovskite-type composite oxide represented by the general formula (3) is at least one selected from the group consisting of Rh-containing perovskite-type composite oxides represented by the following general formula (4), Pd containing perovskite-type composite oxides represented by the following general formula (5), and Pt containing perovskite-type composite oxides represented by the following general formula (6):



wherein A represents at least one element selected from the group consisting of La, Nd, and Y; A' represents Ce and/or Pr; B represents at least one element selected from the group consisting of Fe, Mn, and Al; p represents an atomic ratio of A' satisfying the following relation: $0 \leq p < 0.5$; and q represents an atomic ratio of Rh satisfying the following relation: $0 < q \leq 0.8$,

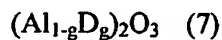


wherein A represents at least one element selected from the group consisting of La, Nd, and Y; B represents at least one element selected from the group consisting of Fe, Mn, and Al; and r represents an atomic ratio of Pd satisfying the following relation: $0 < r < 0.5$,



wherein A represents at least one element selected from the group consisting of La, Nd, and Y; A' represents at least one element selected from the group consisting of Mg, Ca, Sr, Ba, and Ag; B represents at least one element selected from the group consisting of Fe, Mn, and Al; B' represents at least one element selected from the group consisting of Rh and Ru; s represents an atomic ratio of A' satisfying the following relation: $0 < s \leq 0.5$; t represents an atomic ratio of B' satisfying the following relation: $0 \leq t < 0.5$; and u represents an atomic ratio of Pt satisfying the following relation: $0 < u \leq 0.5$.

12. (Original) The exhaust gas purifying catalyst according to claim 1, wherein the theta-alumina and/or alpha-alumina is represented by the following general formula (7):



wherein D represents La and/or Ba; and g represents an atomic ratio of D satisfying the following relation: $0 \leq g \leq 0.5$.

13. (Original) The exhaust gas purifying catalyst according to claim 6, wherein the zirconia composite oxide comprises a zirconia composite oxide supporting Pt and/or Rh, the ceria composite oxide comprises a ceria composite oxide supporting Pt, the theta-alumina comprises a theta-alumina supporting Pt and/or Rh, and the gamma-alumina comprises a gamma-alumina supporting Pt and/or Rh.

14. (Previously presented) The exhaust gas purifying catalyst according to claim 1, further comprising a coating layer supported by a catalyst carrier,

wherein the coating layer includes an outer layer constituting its surface layer, and an inner layer arranged inside the outer layer, and

the outer layer and/or the inner layer comprises both at least one of theta-alumina and alpha-alumina, and the perovskite-type composite oxide containing a noble metal.

15. (Original) The exhaust gas purifying catalyst according to claim 14, wherein the inner layer comprises theta-alumina and/or alpha-alumina each supporting the perovskite-type composite oxide containing a noble metal.

16. (Previously presented) The exhaust gas purifying catalyst according to claim 14, wherein the inner layer comprises at least one thermostable oxide supporting the perovskite-type composite oxide containing a noble metal.

17. (Previously presented) The exhaust gas purifying catalyst according to claim 14, wherein the inner layer comprises a Pd-containing perovskite-type composite oxide.

18. (Previously presented) The exhaust gas purifying catalyst according to claim 14, wherein the outer layer comprises a Rh-containing perovskite-type composite oxide.

19. (Previously presented) The exhaust gas purifying catalyst according to claim 14, wherein a Pt-containing perovskite-type composite oxide is contained in the inner layer, the outer layer, or both.

20. (Original) The exhaust gas purifying catalyst according to claim 14, wherein the noble metal contained in the outer layer is Rh and/or Pt, and the noble metal contained in the inner layer is at least Pd.

21. (Previously presented) The exhaust gas purifying catalyst according to claim 14, wherein the inner layer comprises a ceria composite oxide supporting theta-alumina and Pt, and the outer layer comprises at least one thermostable oxide selected from the group consisting of a zirconia composite oxide supporting Pt and Rh, a ceria composite oxide supporting Pt, and theta-alumina supporting Pt and Rh.

22. (Original) The exhaust gas purifying catalyst according to claim 1, which further comprises sulfates, carbonates, nitrates, and/or acetates of Ba, Ca, Sr, Mg, or La.

23. (Canceled).

24. (Currently amended) The exhaust gas purifying catalyst according to claim 4, wherein ~~in producing the perovskite-type composite oxide containing a noble metal, the thermostable oxide supporting~~ the perovskite-type composite oxide containing a noble metal, which is supported by at least one thermostable oxide. is prepared by a method comprising incorporating a thermostable oxide into a pre-crystallization composition and crystallizing ~~before crystallization of~~ the perovskite-type composite oxide containing a noble metal.